

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 4569-1 (1985): Scissors, Eye, Part 1: Corneal [MHD 5: Ophthalmic Instruments and Appliances]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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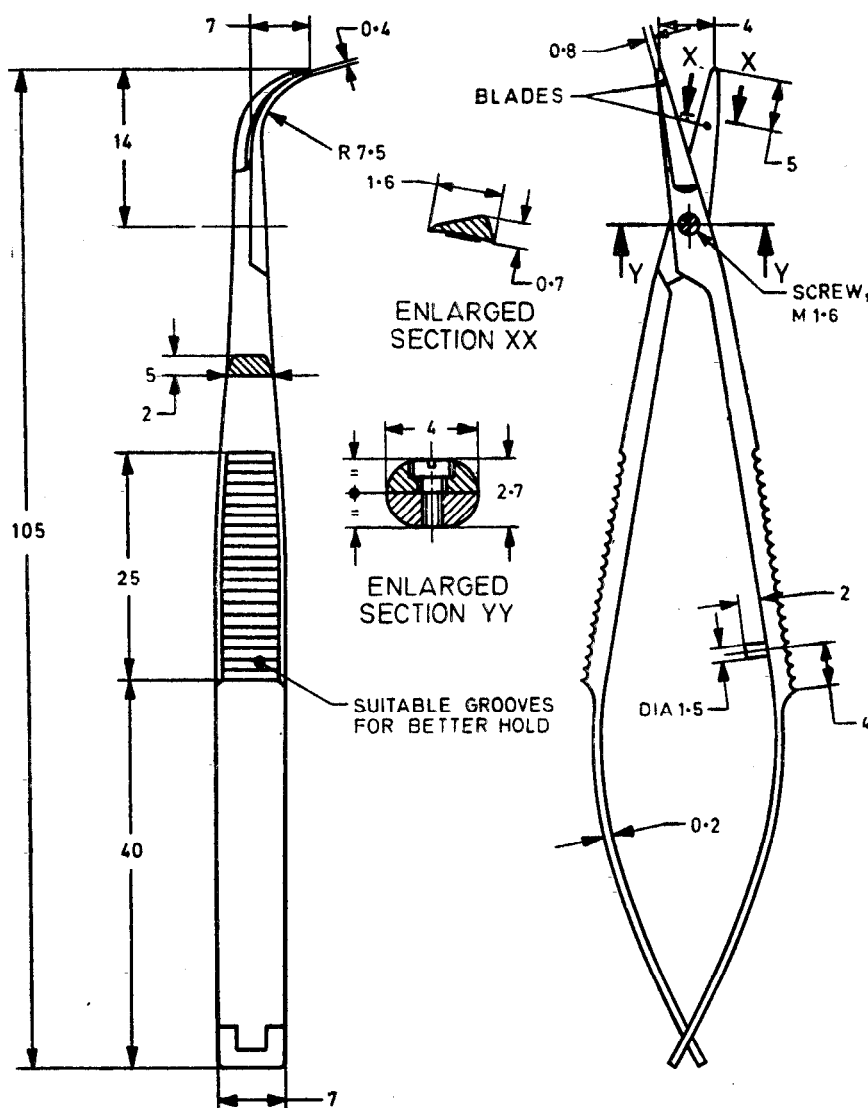
(Revised 1973)

Indian Standard
SPECIFICATION FOR SCISSORS, EYE
PART 1 CORNEAL
(Second Revision)

- 1. Scope** — Covers requirements for corneal scissors used in eye surgery.
- 2. Shape and Dimensions** — As shown in Fig. 1, 2 and 3.

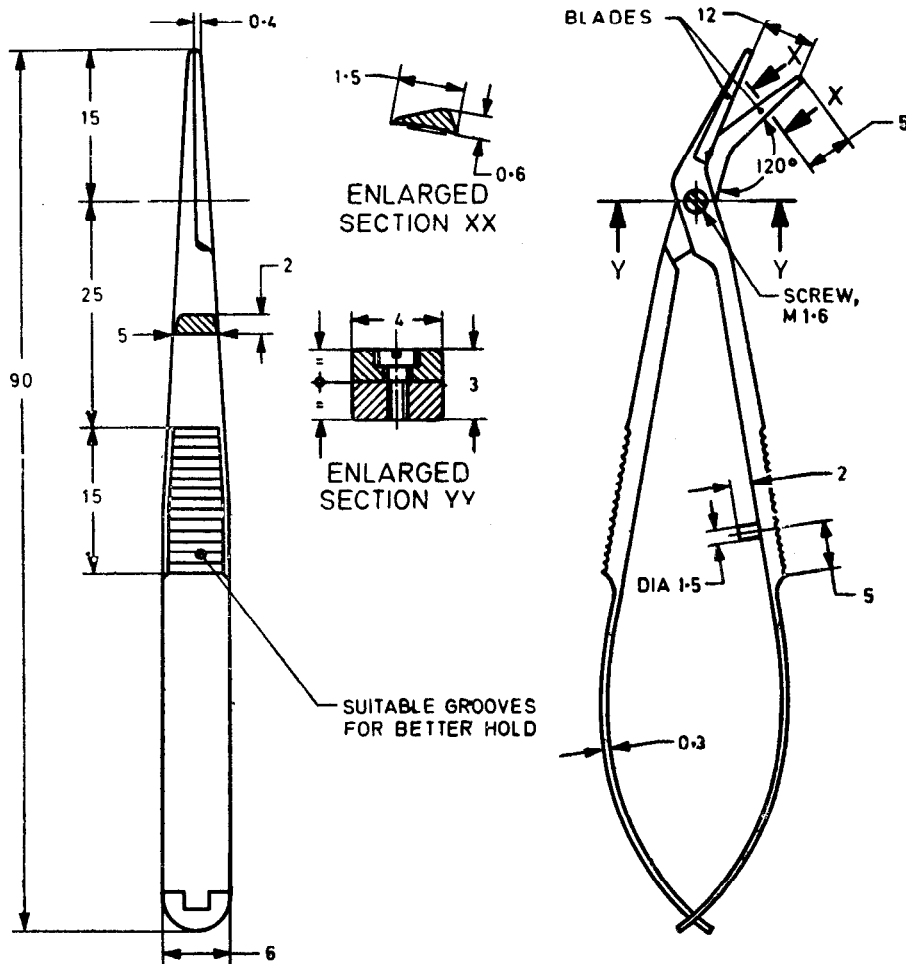
2.1 Screw—Shall be of slotted cheese head. Profile of the screw thread shall conform to IS : 4218 (Part 1)-1976 'Specification for basic and design profiles (*first revision*)'.

2.2 The tolerance for blades dimensions shall conform to 'fine' class of deviation and the tolerances for other dimensions shall conform to 'medium' class of deviation of IS : 2102 (Part 1)-1980 'General tolerances for dimensions and form and position : Part 1 General tolerances for linear and angular dimensions (*second revision*)'.



All dimensions in millimetres.

FIG. 1 SCISSORS, CORNEAL, BLUNT POINT, CURVED ON FLATS, CASTROVIEJO'S PATTERN



All dimensions in millimetres.

FIG. 2 SCISSORS, CORNEAL, ANGLED ON EDGES, CASTROVIEJO'S PATTERN

2.3 The joint shall be of screw-recessed type conforming to IS : 3642-1976 'General requirements for surgical instruments'.

3. Material — Scissors shall be made of stainless steel conforming to Designation 40Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

3.1 Screws shall be made of the same material as used for scissors.

4. Workmanship and Finish — Scissors shall be free from cracks, seams, burrs, pits and other defects. Scissors shall be symmetrical and well balanced. The blades shall close fully and freely with a continuous pinch, without stiffings and excessive cross-over action. There shall be no stiffness play at the joint. The edges shall be even and rounded except for the cutting edge which shall be sharp. The cutting edge shall not have any feather and nick. The scissors shall be polished bright and passivated.

5. Hardness — 550 to 600 HV.

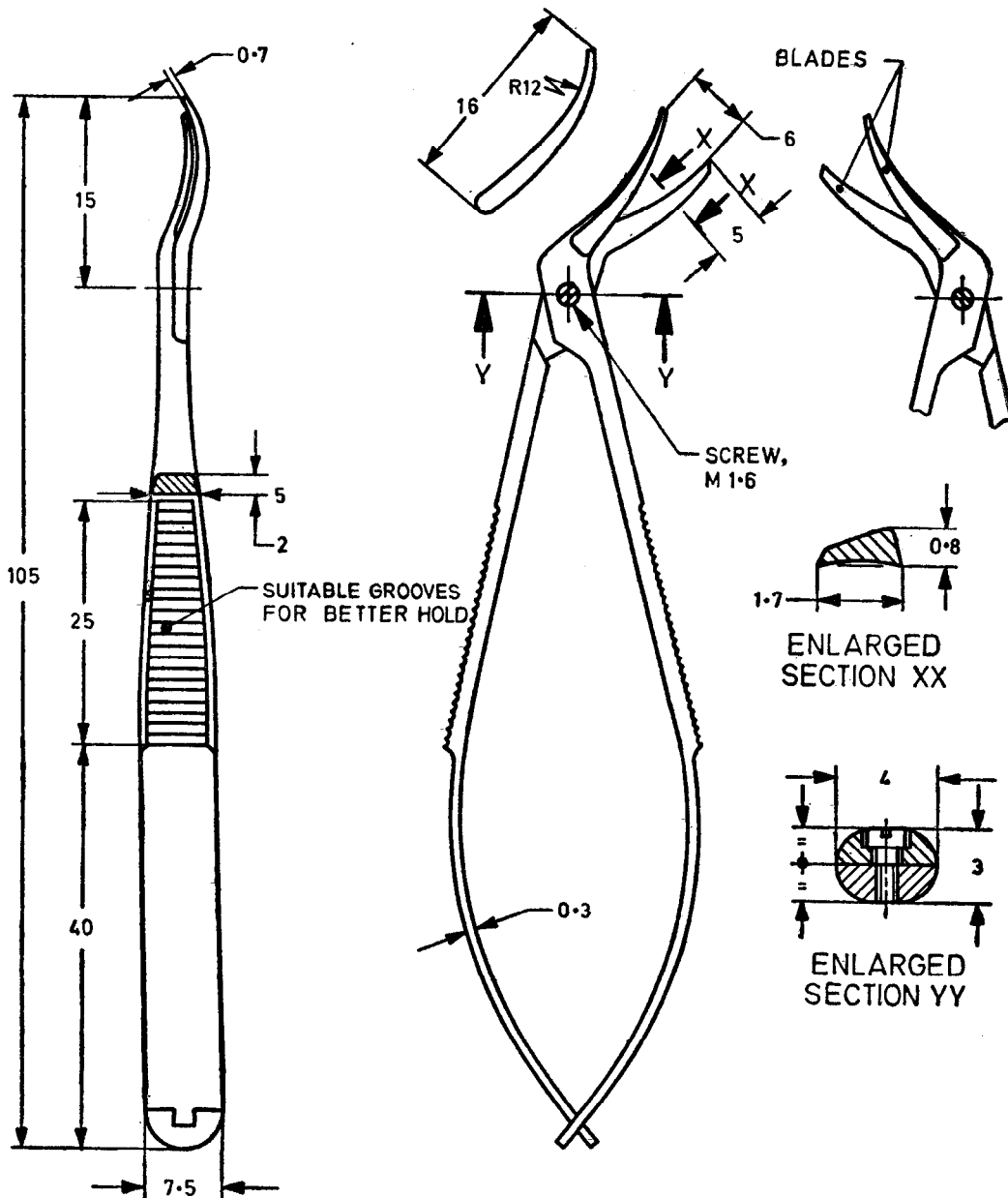
6. Tests

6.1 Performance — The whole length of the cutting edges including the tips shall cut wet tissue paper, teased out cotton wool, fine hair and frayed lint accurately and cleanly, when worked with either right or left hand.

6.2 Corrosion Resistance — The instrument shall satisfy the boiling and autoclaving test as specified in IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'.

7. Sampling and Criteria for Conformity

7.1 A suitable sampling scheme and criteria for acceptance is given in Appendix A.



All dimensions in millimetres.

FIG. 3 SCISSORS, CORNEAL, RIGHT AND LEFT,
CASTROVIEJO'S PATTERN

8. Marking — Each scissors shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark and, in addition, the words stainless steel or letters 'SS'.

8.1 ISI Certification Marking — Details available with the Indian Standards Institution.

9. Packing — Shall be packed as agreed to between the purchaser and the supplier. The working end shall be suitably protected.

APPENDIX A

(Clause 7.1)

SAMPLING AND CRITERIA FOR CONFORMITY FOR SCISSORS

A-1. Lot — In any consignment, all the scissors produced from the same material under similar conditions shall constitute a lot.

A-2. The number of scissors to be selected from each lot shall depend upon the size of the lot and shall be in accordance with the following table:

TABLE 1 SCALE OF SAMPLING

Lot Size	Sample Size
(1)	(2)
Up to 15	2
16 „ 50	3
51 „ 150	5
151 and above	8

A-2.1 These scissors shall be selected from the lot at random and in order to ensure the randomness of selection, procedures given in IS : 4905-1968 'Methods for random sampling' may be followed.

A-3. Number of Tests and Criteria for Conformity — All the scissors selected at random in accordance with the table shall be tested for shape and dimensions, workmanship and finish, hardness, performance tests and corrosion resistance. A scissors shall be considered as defective if it fails to meet any one or more of these requirements. A lot shall be considered as conforming to these requirements if none of the scissors in the sample is found to be defective in any of these tests.

EXPLANATORY NOTE

This standard was prepared in 1968 and revised in 1976. The present revision has been taken up to include certain modification in order to bring the specification in line with the modern manufacturing practices. The non-functional dimensions have been rounded off. The tolerance for the functional dimensions have been modified keeping in view the present manufacturing technique. A clause on sampling and inspection has been added. The test methods have been brought in line with the test methods covered in other similar standards of eye surgery instruments.